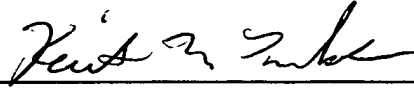




If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/2592.C6/KMT.

Respectfully submitted,



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| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>AMAT/2592.C6/DSM<br>/LOW K JW | Serial No.<br>10/632,179    |
| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>                                 |  | Applicant<br>Xia, et al.                    | Confirmation No.<br>Unknown |
| (Use several sheets if necessary)  |  | Filing Date<br>July 31, 2003                | Group<br>Unknown            |
| Examiner Unknown   |  |   |                             |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name  | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|--------------------|-------|----------|----------------------------|
|                   | A26 | 5,703,404       | 12/30/1997 | Matsuura           | 257   | 758      | 12/24/1996                 |
|                   | A27 | 5,700,720       | 12/23/1997 | Hashimoto          | 438   | 622      | 12/20/1995                 |
|                   | A28 | 5,693,563       | 12/02/1997 | Teong              | 437   | 190      | 07/15/1996                 |
|                   | A29 | 5,683,940       | 11/04/1997 | Yashiro            | 438   | 760      | 12/20/1995                 |
|                   | A30 | 5,679,413       | 10/21/1997 | Petrmichle, et al. | 427   | 534      | 10/11/1996                 |
|                   | A31 | 5,638,251       | 06/10/1997 | Goel, et al.       | 361   | 313      | 10/03/1995                 |
|                   | A32 | 5,637,351       | 06/10/1997 | O'Neal, et al.     | 427   | 255.37   | 05/11/1995                 |
|                   | A33 | 5,618,619       | 04/08/1997 | Petrmichl, et al.  | 428   | 334      | 03/03/1994                 |
|                   | A34 | 5,616,369       | 04/01/1997 | Williams, et al.   | 427   | 560      | 06/24/1994                 |
|                   | A35 | 5,598,027       | 01/28/1997 | Matsuura           | 257   | 635      | 12/21/1995                 |
|                   | A36 | 5,593,741       | 01/14/1997 | Ikeda              | 427   | 579      | 06/28/1995                 |
|                   | A37 | 5,578,523       | 11/26/1996 | Fiordalice, et al. | 438   | 633      | 05/18/1995                 |
|                   | A38 | 5,563,105       | 10/08/1996 | Dobuzinsky, et al. | 437   | 240      | 09/30/1994                 |

**Foreign Patent Documents**

| *Examiner Initial |     | Document Number | Date       | Country | Class | Subclass | Translation              |                                     |
|-------------------|-----|-----------------|------------|---------|-------|----------|--------------------------|-------------------------------------|
|                   |     |                 |            |         |       |          | YES                      | NO                                  |
|                   | B15 | 0 469 926 A1    | 02/05/1992 | EP      | C08J  | 7/06     | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B16 | 0 522 799 A2    | 01/13/1993 | EP      | H01L  | 21/90    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B17 | 0 721 019 A2    | 07/10/1996 | EP      | H01L  | 16/40    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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|                   | B19 | 0 711 817 A2    | 05/15/1996 | EP      | C09D  | 183/04   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B20 | 0 885 983 A1    | 12/23/1998 | EP      | C23C  | 16/30    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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\*Examiner Initial

Including Author, Title, Date, Pertinent Pages, Etc.

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|  |  |   |                             |
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| (Use several sheets if necessary)  |  | Filing Date<br>July 31, 2003                | Group<br>Unknown            |
| Examiner Unknown   |  |   |                             |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A53 | 5,298,587       | 03/29/1994 | Hu, et al.        | 528   | 10       | 12/21/1992                 |
|                   | A54 | 5,290,736       | 03/01/1994 | Sato, et al.      | 438   | 761      | 09/24/1991                 |
|                   | A55 | 5,279,867       | 01/18/1994 | Friedt, et al.    | 427   | 583.2    | 07/09/1992                 |
|                   | A56 | 5,250,473       | 10/05/1993 | Smits             | 438   | 790      | 08/02/1991                 |
|                   | A57 | 5,246,887       | 09/21/1993 | Yu                | 438   | 761      | 07/10/1991                 |
|                   | A58 | 5,224,441       | 07/06/1993 | Felts, et al.     | 118   | 718      | 09/27/1991                 |
|                   | A59 | 5,204,141       | 04/20/1993 | Roberts, et al.   | 427   | 255.3    | 09/18/1991                 |
|                   | A60 | 5,124,014       | 06/23/1992 | Foo, et al.       | 204   | 92.32    | 04/11/1991                 |
|                   | A61 | 5,120,680       | 06/09/1992 | Foo, et al.       | 438   | 789      | 07/19/1990                 |
|                   | A62 | 5,093,153       | 03/03/1992 | Brochot, et al.   | 427   | 41       | 02/07/1989                 |
|                   | A63 | 5,040,046       | 08/13/1991 | Chabra, et al.    | 357   | 54       | 10/09/1990                 |
|                   | A64 | 5,028,566       | 07/02/1991 | Lagendijk         | 438   | 784      | 07/27/1990                 |

**F reign Patent Documents**

| *Examiner Initial |     | Document Number | Date       | Country | Class | Subclass | Translation              |                                     |
|-------------------|-----|-----------------|------------|---------|-------|----------|--------------------------|-------------------------------------|
|                   |     |                 |            |         |       |          | YES                      | NO                                  |
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|                   | B28 | 00/01012        | 01/06/2000 | WO      | H01L  | 23/48    | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B29 | 98/08249        | 02/26/1998 | WO      | H01L  | 21/312   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B30 | 99/38202        | 07/29/1999 | WO      | H01L  | 21/312   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B31 | 99/41423        | 08/19/1999 | WO      | C23C  |          | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|                   | B32 | 94/01885        | 01/20/1994 | WO      | H01L  | 21/316   | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

**OTHER ART**

|  |    |   |
|--|----|---|
| *Examiner Initial  |    | Including Author, Title, Date, Pertinent Pages, Etc.  |
|  | C3 | M. Matsuura, et al. "Novel Self-Planarizing CVD Oxide for Interlayer Dielectric Applications," 1994, pages 5.7.1.-5.7.4 |
| Examiner   |    | Date Considered   |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p> |    |   |

|  |  |   |                             |
|--|--|---|-----------------------------|
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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>                                 |  | Applicant<br>Xia, et al.                    | Confirmation No.<br>Unknown |
| (Use several sheets if necessary)  |  | Filing Date<br>July 31, 2003                | Group<br>Unknown            |
| Examiner Unknown   |  |   |                             |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A39 | 5,559,367       | 09/24/1996 | Cohen, et al.     | 157   | 77       | 07/12/1994                 |
|                   | A40 | 5,554,570       | 09/10/1996 | Maeda, et al.     | 437   | 235      | 01/09/1995                 |
|                   | A41 | 5,508,368       | 04/16/1996 | Knapp, et al.     | 427   | 534      | 03/03/1994                 |
|                   | A42 | 5,494,712       | 02/27/1996 | Hu, et al.        | 427   | 489      | 11/17/1994                 |
|                   | A43 | 5,492,736       | 02/20/1996 | Laxman, et al.    | 427   | 579      | 11/28/1994                 |
|                   | A44 | 5,488,015       | 01/30/1996 | Havemann, et al.  | 437   | 195      | 05/20/1994                 |
|                   | A45 | 5,468,520       | 11/21/1995 | Williams, et al.  | 427   | 560      | 06/24/1994                 |
|                   | A46 | 5,466,431       | 11/14/1995 | Dorfman, et al.   | 423   | 446      | 05/25/1994                 |
|                   | A47 | 5,465,680       | 11/14/1995 | Loboda            | 117   | 84       | 07/01/1993                 |
|                   | A48 | 5,364,666       | 11/15/1994 | Williams, et al.  | 427   | 579      | 09/23/1993                 |
|                   | A49 | 5,362,526       | 11/08/1994 | Wang, et al.      | 427   | 573      | 01/23/1991                 |
|                   | A50 | 5,360,646       | 11/01/1994 | Morita            | 427   | 574      | 09/01/1993                 |
|                   | A51 | 5,352,493       | 10/04/1994 | Dorfman, et al.   | 427   | 530      | 05/03/1991                 |
|                   | A52 | 5,314,724       | 05/24/1994 | Tsukune, et al.   | 427   | 489      | 12/19/1991                 |

**Foreign Patent Documents**

| *Examiner Initial |     | Document Number | Date        | Country | Class | Subclass | Translation                         |                                     |
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|                   | B23 | 0 849 789 A2    | 06/24/1998  | EP      | H01L  | 21/311   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B24 | 0 840 365 A2    | 05/06//1998 | EP      | HO1L  | 21/311   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B25 | 196 54 737 A1   | 07/03/1997  | GERMANY | HOIL  | 21/31    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B26 | 198 04 375 A1   | 01/07/1999  | GERMANY | HOIL  | 21/312   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**OTHER ART**

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|---|--|--|
| *Examiner Initial   |  | Including Author, Title, Date, Pertinent Pages, Etc. |
| Examiner  |  | Date Considered                                      |
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| Examiner Unknown   |  |   |                             |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A65 | 4,981,724       | 01/01/1991 | Hochberg, et al.  | 427   | 255.3    | 10/27/1988                 |
|                   | A66 | 4,973,511       | 11/27/1990 | Farmer, et al.    | 428   | 216      | 12/01/1998                 |
|                   | A67 | 4,900,591       | 02/13/1990 | Bennett, et al.   | 427   | 255      | 01/20/1988                 |
|                   | A68 | 4,894,352       | 01/16/1990 | Lane, et al.      | 437   | 238      | 10/26/1988                 |
|                   | A69 | 4,845,054       | 07/04/1989 | Mitchener         | 437   | 238      | 06/29/1987                 |
|                   | A70 | 4,828,880       | 05/09/1989 | Jenkins, et al.   | 427   | 167      | 12/21/1987                 |
|                   | A71 | 4,824,690       | 04/25/1989 | Heinecke, et al.  | 427   | 38       | 11/03/1987                 |
|                   | A72 | 4,812,325       | 03/14/1989 | Ishihara, et al.  | 427   | 69       | 10/21/1986                 |
|                   | A73 | 4,798,629       | 01/17/1989 | Wood, et al.      | 106   | 287.16   | 10/22/1987                 |
|                   | A74 | 4,789,648       | 12/06/1988 | Chow, et al.      | 438   | 633      | 10/28/1985                 |
|                   | A75 | 4,557,946       | 12/10/1985 | Sacher, et al.    | 427   | 41       | 06/03/1983                 |
|                   | A76 | 4,532,150       | 07/30/1985 | Endo, et al.      | 427   | 577      | 12/22/1983                 |
|                   | A77 | 4,168,330       | 09/18/1979 | Kaganowicz        | 427   | 39       | 10/13/1977                 |
|                   | A78 | 2003/0032306    | 12/13/2003 | Conti, et al.     | 438   | 778      | 08/10/2001                 |
|                   | A79 | 2002/0105084    | 08/08/2002 | Li                | 257   | 759      | 12/27/2001                 |

**Foreign Patent Documents**

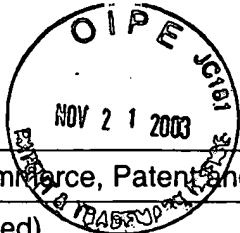
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| *Examiner Initial |  | Including Author, Title, Date, Pertinent Pages, Etc. |
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| Examiner | Date Considered |
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| Examiner Unknown   |     | Filing Date<br>July 31, 2003  | Group<br>Unknown            |
| <b>OTHER ART</b>   |     |   |                             |
| *Examiner Initial  |     | Including Author, Title, Date, Pertinent Pages, Etc.  |                             |
|  | C4  | Frederic Gaillard, et al., "Silicon Dioxide Chemical Vapor Deposition Using Silane and Hydrogen Peroxide," J. Vac. Sci. Technol. Jul/Aug 1996, pages 2767-2769  |                             |
|  | C5  | N. Inagaki et al., "Plasma Polymerization Of Organosilicon Compounds", Journal of Applied Polymer Science, Vol. 30, pp. 3385-3395 (1985)  |                             |
|  | C6  | A. Nara, et al. "Low Dielectric Constant Insulator Formed by Downstream Plasma CVD at Room Temperature Using TMS/O <sub>2</sub> ", Japanese Journal of Applied Physics, Vol. 36. No. 3B (March 1997)                          |                             |
|  | C7  | A. Grill, et al. "Low Dielectric Constant Films Prepared by Plasma-Enhanced Chemical Vapor Deposition From Tetramethylsilane", Journal of Applied Physics, Vol. 85. No. 6 (March 1999)  |                             |
|  | C8  | Luther et al., "Planar Copper-Polyimide Back End Of The Line Interconnections For ULSI Devices", June 8-9 1993, VMIC Conference, 1993 ISMIC-102/93/0015, pp. 15-21,   |                             |
|  | C9  | Y. Osada et al., "Plasma-Exposed Polymerization Of Cyclic Organosiloxanes In The Condensed Phase", Journal of Polymer Science: Polymer Letters Edition, Vol. 19, pp. 369-374 (1981)   |                             |
|  | C10 | P. Favia et al., "The Role Of Substrate Temperature And Bias In The Plasma Deposition From Tetramethylsilane", Plasma Sources Sci. Technol. 1 (1992) pp. 59-66  |                             |
|  | C11 | D.S. Kim et al., "Deposition Of Thermally Stable, Low Dielectric Constant Fluorocarbon/SiO <sub>2</sub> Composite Thin Film", American Institute Of Physics, Appl. Phys. Lett., Vol. 69, No. 18, Oct. 28, 1996, pp. 2776-2778 |                             |
|  | C12 | V. Hazari et al., Characterization Of Alternative Chemistries For Depositing PECVD Silicon Dioxide Films, DUMIC Conference,--333D/98/0319, pp. 319-326, Feb. 1998   |                             |
|  | C13 | R. McCabe et al., "Large Area Diamond-Like Carbon Coatings By Ion Implantation", Surface Engineering Vol. III: Process Technology and Surface Analysis, pp. 163-172, 1995   |                             |
|  | C14 | K.H.A. Bogart, et al. "Plasma Enhanced Chemical Vapor Deposition of SiO <sub>2</sub> Using Novel Alkoxysilane Precursors" Journal of Vacuum Science & Technology A 13(2) Mar/Apr 1995.  |                             |
|  | C15 | P. Favia, "Plasma Deposition Of Thin Films From a Fluorine-Containing Cyclosiloxane", Journal Of Polymer Science: Part A: Polymer Chemistry, 1992, 10 pp.   |                             |
|  | C16 | Y. Segui et al., "In Situ Electrical Property Measurements Of Metal (Plasma Polysiloxane)/Metal Structures", Thin Solid Films, 155 (1987) pp. 175-185, Electronics and Optics   |                             |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p> |     |   |                             |



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|--|-----|---|-----------------------------|
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| <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>   |     | Applicant<br>Xia, et al.  | Confirmation No.<br>Unknown |
| (Use several sheets if necessary)  |     | Filing Date   | Group                       |
| Examiner Unknown   |     | July 31, 2003   | Unknown                     |
| <b>OTHER ART</b>   |     |   |                             |
| *Examiner Initial  |     | Including Author, Title, Date, Pertinent Pages, Etc.  |                             |
|  | C17 | Y. Segui et al., "Gas Discharge In Hexamethyldisiloxane", Journal of Applied Polymer Science, Vol. 20 pp. 1611-1618 (1976)  |                             |
|  | C18 | N. Inagaki et al., "Preparation Of Siloxane-Like Films By Glow Discharge Polymerization", Journal of Applied Polymer Science, Vol. 29, pp. 3595-3605 (1984)   |                             |
|  | C19 | V.S. Nguyen et al., " Plasma Organosilicon Polymers", J. Electrochem. Soc. Solid-State Science and Technology, Vol. 132, No. 8, pp. 1925-1932, Aug. 1985  |                             |
|  | C20 | K. J. Taylor et al., "Parylene Copolymers", Spring MRS, Symposium N, pp. 1-9, 1997  |                             |
|  | C21 | S. McClatchie, et al., "Low Dielectric Constant Flowfill Technology For IMD Applications" DUMIC Conference 1997 ISMIC-222D/97/0034 (February 10-11, 1997)   |                             |
|  | C22 | C. Rau et al, "Mechanisms Of Plasma Polymerization Of Various Silico-Organic Monomers", Thin Solid Films, pp. 28-37, 249 (1994)   |                             |
|  | C23 | S. Sahli et al., "Properties Of Plasma-Polysiloxane Deposited By PECVD", Materials Chemistry and Physics, pp. 106-109, 33 (1993)  |                             |
|  | C24 | A.M. Wrobel et al., "Oligomeric Products In Plasma-Polymerized Organosilicones", J. Macromol. Sci-Chem., A20 (5&6), pp. 583-618 (1983)  |                             |
|  | C25 | M. R. Wertheimer et al., "Advances In Basic And Applied Aspects Of Microwave Plasma Polymerization", Thin Solid Films, 115 (1984) pp. 109-124   |                             |
|  | C26 | J.A. Theil et al., "Carbon Content Of Silicon Oxide Films Deposited By Room Temperature Plasma Enhanced Chemical Vapor Deposition Of Hexamethyldisiloxane And Oxygen", Journal of Vacuum Science Technology, A 12(4), Jul./Aug. 1994, pp. 1365-1370 |                             |
|  | C27 | European Search Report Dated October 26, 2000   |                             |
|  | C28 | European Search Report for EP 00 11 2300, Dated August 24, 2001   |                             |
|  | C29 | Laura Peters, "Pursuing the Perfect Low K Dielectrics" Semiconductor International, September 1998  |                             |
|  | C30 | Bin Zhao, et al. "Integration of Low Dielectrics Constant Materials in Advanced Aluminum & Copper Interconnects", Materials Research Symposium Proc., Vol. 564, Materials Research Society, 1999. Pages 485-497                                     |                             |
| <p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.</p> |     |   |                             |



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|--|--|---|-----------------------------|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>AMAT/2592.C6/DSM<br>/LOW K JW | Serial No.<br>10/632,179    |
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| Examiner Unknown   |  | Filing Date<br>July 31, 2003                | Group<br>Unknown            |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A1  | 6,570,256       | 05/27/2003 | Conti, et al.     | 257   | 761      | 07/20/2001                 |
|                   | A2  | 6,524,972       | 02/25/2003 | Maeda             | 438   | 778      | 03/09/2000                 |
|                   | A3  | 6,475,564       | 11/05/2002 | Carter, et al.    | 427   | 249.15   | 07/06/2000                 |
|                   | A4  | 6,242,366       | 06/05/2001 | Beekman, et al.   | 438   | 790      | 02/17/1999                 |
|                   | A5  | 6,211,096       | 04/03/2001 | Sandhu, et al.    | 438   | 725      | 12/22/1998                 |
|                   | A6  | 6,169,021       | 01/02/2001 | Akram, et al.     | 438   | 612      | 12/18/1998                 |
|                   | A7  | 6,159,871       | 12/12/2000 | Loboda, et al.    | 438   | 786      | 05/29/1998                 |
|                   | A8  | 6,147,009       | 11/14/2000 | Grill, et al.     | 438   | 780      | 06/29/1998                 |
|                   | A9  | 6,140,226       | 10/31/2000 | Grill, et al.     | 438   | 637      | 07/30/1998                 |
|                   | A10 | 6,072,227       | 06/06/2000 | Yau, et al.       | 257   | 642      | 07/13/1998                 |
|                   | A11 | 6,068,884       | 05/30/2000 | Rose, et al.      | 427   | 255.6    | 04/28/1998                 |
|                   | A12 | 6,054,379       | 04/25/2000 | Yau, et al.       | 438   | 623      | 02/11/1998                 |
|                   | A13 | 6,054,206       | 04/25/2000 | Mountsier         | 428   | 312.8    | 06/22/1998                 |

**Foreign Patent Documents**

| *Examiner Initial |    | Document Number | Date       | Country       | Class | Subclass | Translation                         |                                     |
|-------------------|----|-----------------|------------|---------------|-------|----------|-------------------------------------|-------------------------------------|
|                   |    |                 |            |               |       |          | YES                                 | NO                                  |
|                   | B1 | 59 98726        | 06/07/1984 | JP            | BOIJ  | 12/00    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B2 | 6-163521        | 06/10/1994 | JP (Abstract) | HOIL  | 21/314   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B3 | 6-168937        | 06/14/1994 | JP (Abstract) | HOIL  | 21/316   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B4 | 8-222559        | 08/30/1996 | JP (Abstract) | HOIL  | 21/316   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B5 | 8-236518        | 09/13/1996 | JP (Abstract) | HOIL  | 21/316   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B6 | 8-288286        | 11/01/1996 | JP (Abstract) | HOIL  | 21/316   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B7 | 9-008031        | 01/10/1997 | JP            | HOIL  | 21/316   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B8 | 05267480        | 10/15/1993 | JP (Abstract) | H01L  | 21/90    | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

|                   |  |  |
|-------------------|--|--|
| *Examiner Initial |  | Including Author, Title, Date, Pertinent Pages, Etc. |
|-------------------|--|--|

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|--|--|---|-----------------------------|
| U.S. Department of Commerce, Patent and Trademark Office<br>(PTO Form 1449 modified) |  | Docket No.<br>AMAT/2592.C6/DSM<br>/LOW K JW | Serial No.<br>10/632,179    |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT  |  | Applicant<br>Xia, et al.                    | Confirmation No.<br>Unknown |
| (Use several sheets if necessary)  |  | Filing Date<br>July 31, 2003                | Group<br>Unknown            |
| Examiner Unknown   |  |   |                             |

**U.S. Patent Documents**

| *Examiner Initial |     | Document Number | Issue Date | Applicant(s) Name | Class | Subclass | Filing Date If Appropriate |
|-------------------|-----|-----------------|------------|-------------------|-------|----------|----------------------------|
|                   | A14 | 5,989,998       | 11/23/1999 | Sugahara, et al.  | 438   | 623      | 08/28/1997                 |
|                   | A15 | 5,891,799       | 04/06/1999 | Tsui              | 438   | 624      | 08/18/1997                 |
|                   | A16 | 5,888,593       | 03/30/1999 | Petrmichl, et al. | 427   | 563      | 04/12/1996                 |
|                   | A17 | 5,858,880       | 01/12/1999 | Dobson, et al.    | 438   | 758      | 01/05/1996                 |
|                   | A18 | 5,834,162       | 11/10/1998 | Malba             | 430   | 317      | 10/28/1996                 |
|                   | A19 | 5,821,168       | 10/13/1998 | Jain              | 438   | 692      | 07/16/1997                 |
|                   | A20 | 5,818,071       | 10/06/1998 | Loboda, et al.    | 257   | 77       | 02/02/1995                 |
|                   | A21 | 5,817,572       | 10/06/1998 | Chiang, et al.    | 438   | 624      | 12/18/1996                 |
|                   | A22 | 5,807,785       | 09/15/1998 | Ravi              | 438   | 624      | 08/02/1996                 |
|                   | A23 | 5,789,319       | 08/04/1998 | Havemann, et al.  | 438   | 668      | 02/26/1996                 |
|                   | A24 | 5,753,564       | 05/19/1998 | Fukada            | 438   | 624      | 06/07/1995                 |
|                   | A25 | 5,739,579       | 04/14/1998 | Chiang, et al.    | 257   | 635      | 09/10/1996                 |

**Foreign Patent Documents**

| *Examiner Initial |     | Document Number | Date       | Country            | Class | Subclass | Translation                         |                                     |
|-------------------|-----|-----------------|------------|--------------------|-------|----------|-------------------------------------|-------------------------------------|
|                   |     |                 |            |                    |       |          | YES                                 | NO                                  |
|                   | B9  | 92/12535        | 07/23/1992 | JP                 | HOIL  | 21/312   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B10 | 01050429        | 02/27/1989 | JP (Abstract Only) | H01L  | 21/318   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
|                   | B11 | 60111480        | 06/17/1985 | JP                 |       |          | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B12 | 9-237785        | 09/09/1997 | JP                 | HOIL  | 21/316   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B13 | 0 774 533 A1    | 05/21/1997 | EP                 | C23C  | 16/40    | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
|                   | B14 | 0 519 079 A1    | 12/09/1991 | EP                 | HOIL  | 21/312   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**OTHER ART**

| *Examiner Initial |    | Including Author, Title, Date, Pertinent Pages, Etc.  |
|-------------------|----|---|
|                   | C1 | C.D. Dobson, A. Kiermasz, K. Beekman, R.J. Wilby, "Advanced SiO <sub>2</sub> Planarization Using Silane and H <sub>2</sub> O <sub>2</sub> ," December 1994, pages 85-87 |

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